RECEIVED
APR 13 1995
IOWA SECTION

Howard R. Green Company
CONSULTING ENGINEERS

April 10, 1995

Mr. Don Bahnke
Waste Management Division
U.S. Environmental Protection Agency
Region VII
726 Minnesota Avenue
Kansas City, KS 66101

SUBJECT: Groundwater Sampling Results at MW-A
Fansteel/Wellman Dynamics - Creston, Iowa
IAD No. 065218737

Dear Mr. Bahnke:

Enclosed are the analytical results and chain-of-custody of the groundwater sampling event conducted at MW-A on March 10, 1995. These results are being submitted on behalf of Fansteel/Wellman Dynamics in accordance with their quarterly groundwater monitoring program. As with the previous two sampling events, conducted on August 29, 1994 and November 16, 1994, two groundwater samples were collected approximately two hours apart and analyzed by National Environmental Testing, Inc. Following is a summary of the groundwater sampling results at MW-A.

Sampling Date	Total Chromium (mg/l)
*12/15/93	0.23
7/28/94	4.7
8/29/94	1.7 and 0.079
11/16/94	0.431 and 0.086
3/10/95	0.354 and 0.035

* MW-A was constructed on this date.

R00365065
RCRA RECORDS CENTER

4250 Glass Rd., N.E. • P.O. Box 9009 • Cedar Rapids, Iowa 52409-9009 • Phone 319/395-7805 • FAX 319/395-9410

Recycled Paper

As evident from these results, the chromium concentration in the groundwater, at the time the well was constructed, was relatively low. Only in the July sample does the concentration become elevated. Major disturbance caused by the excavation and removal of approximately 150 cubic yards of contaminated soil and the accumulation of rainfall following the excavation and prior to backfilling likely contributed to this single elevated level. Since that time, however, the analytical results have shown a continuous decrease in chromium concentration. To illustrate this, a bar graph has been enclosed. The results also strongly indicate that the true groundwater contamination is limited to less than 0.1 mg/l and that the higher chromium values are due to sediments and not dissolved chromium. Further monitoring is expected to confirm these indications.

As for soil contamination in the area, Fansteel/Wellman Dynamics is continuing to proceed with the additional exploratory work scheduled for later this spring. Specifically, they are currently in the process of scheduling and coordinating the drilling of six (6) additional soil borings to determine the horizontal and vertical extent of contamination in the area. Also, three (3) of these borings will be converted into monitoring wells and will be added to the quarterly groundwater monitoring program. Fansteel/Wellman will advise U.S. EPA once the drilling is scheduled.

Very truly yours,

HOWARD R. GREEN COMPANY

Gene H. Fritch, P.E.
Vice President/Secretary

Enclosures

CC: Gordon Crawford - Fansteel/Wellman Dynamics

O:\PROJ\713030\GWMON.LET

Recycled Paper

NATIONAL ENVIRONMENTAL TESTING, INC.

704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319) 277-2401
Fax: (319) 277-2425

ANALYTICAL REPORT

03/16/1995

WELLMAN DYNAMICS CORP.
U.S. Route 34
P.O. Box 147
Creston, IA 50801

CC: HOWARD R. GREEN ATTN: GENE FRITCH

Date Received: 03/11/1995
Job Number: 95.02057

	Result	Units	Date Taken	Date Analyzed	Analyst	Analysis Method
288559 MW-A						
ICP Metals - E 200.7			03/09/1995			
Chromium, ICP	0.354	mg/L	03/09/1995	03/15/1995	lmc	E-200.7
288560 MW-A-1						
ICP Metals - E 200.7			03/09/1995			
Chromium, ICP	0.035	mg/L	03/09/1995	03/15/1995	lmc	E-200.7

Units: mg/L = ppm ug/g = mg/kg = ppm

Audrey Ebsamilla
for
Cheryl L. Wilson
Operations Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

NET, Inc. - Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319 - 277 - 2401 or 1 - 800 - 750 - 2401
FAX 319 - 277 - 2425

Company: Howard R. Green Co.
Send Report To: Gene Fritch
Address: 4250 Glass Rd NE
City/State/Zip Code: Cedar Rapids, Iowa, 52409
Telephone Number: 319-395-7805 Fax: 319-395-9410
Sampled By: (Print Name) Randy Gavin
(Signature)

P.O. Number:
Invoice To: Fansteel-Wellman Dynamics-Cin
NET Quote Number:

Project Name: Fansteel-Wellman
Project Number:
Project Manager: Gene Fritch

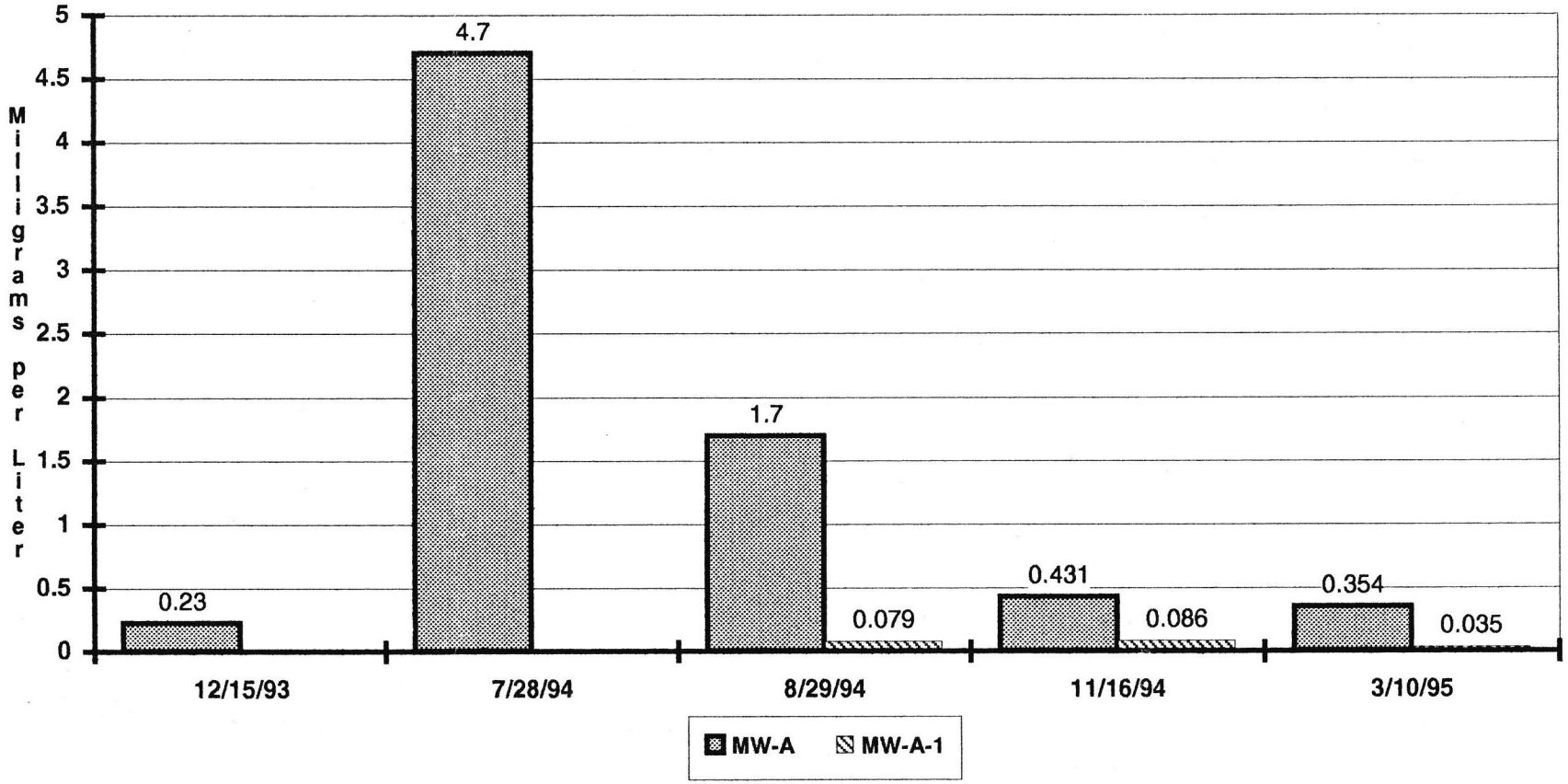
Sample ID	Date Sampled	Time Sampled	# of Containers Shipped	Grab	Composite	Field Filtered	Ice	Preservative: HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 (Yellow & White Label)	None (Black & White Label)	Other (Specify):	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (Specify):	Analyze for: Chromium, Tot.	Results need: 48 hours turn around time*	5 day turn around time*	Standard turn around time
MW-A	3-9-95	14:35	1	X				1						X						X			
MW-A-1	3-9-95	16:20	1	X				1						X						X			

NOTE: All turn around times are calculated from the time of receipt at NET. NOTE: There may be a charge for NET disposing of samples.
Pre-arrangements MUST be made at least 48 hours in advance to receive results with these turn around time commitments. Additional charges may be assessed.

NOTES:

CHAIN OF CUSTODY RECORD

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY	DATE	TIME
	3-10-95	14:30						
SEALED (YES) NO	SHIPPED VIA: Lanter		SEALED YES NO	COMMENTS		SEALED YES NO	SHIPPED VIA:	
RECEIVED FOR NET BY:	DATE	TIME	COC SEALS PRESENT AND INTACT? YES NO NA			VOLATILES FREE OF HEADSPACE? YES NO		
Melene Staccum	3-11-95	800	TEMPERATURE UPON RECEIPT			REMARKS:		

PLEASE KEEP THE PINK COPY FOR YOUR RECORDS - THE ORIGINAL WILL BE RETURNED WITH THE ANALYTICAL REPORT.

Total Chromium - Well MW-A